

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-256220

(43)Date of publication of application : 13.09.1994

(51)Int.Cl. A61K 47/34
A61K 9/06
A61K 47/32

(21)Application number : 05-049241

(71)Applicant : MEIJI SEIKA KAISHA LTD

(22)Date of filing : 10.03.1993

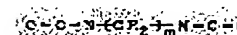
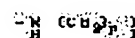
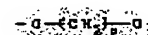
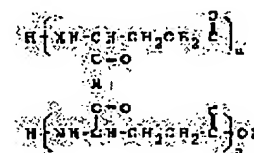
(72)Inventor : AKASHI MITSURU
KAKIGI NORIAKI
KISHIDA AKIO
ENDO TAKESHI
KUBOTA HIDETOSHI
INUMA KATSU HARU

(54) POLYMER FOR DRUG-CARRIER

(57)Abstract:

PURPOSE: To obtain a polymer gel for including a drug, having excellent safety in living body, capable of including a drug by chemical or physical means and exhibiting sustained release of the drug under physiological condition.

CONSTITUTION: A water-containing polymer gel expressed by formula I [R is (non-crosslinked) OH or group of formula II to formula VI ((m) and (p) are integers); (n) is integer; all R groups in the molecule are not OH at the same time. The polymer gel can be produced by reacting the α -carboxyl group of γ -glutamic acid with a bifunctional compound such as diol, diamine or diisocyanate of formula VII or formula VIII. The inclusion of a drug into the polymer gel is carried out by forming an ester bond or an amide bond between the alcoholic hydroxyl group or the primary or secondary amino group (including a group introduced by modification) of the drug molecule and the α -carboxylic group of γ -glutamic acid or by swelling the polymer gel in a solution of the drug.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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